

5.4.5 Water Heater Efficiencies

	Efficiency Parameter (1)	2005 Stock Efficiency	Minimum New Efficiency (2)	2005 Best-Available New Efficiency
Residential Type				
Electric Storage	EF	0.88	0.92	0.95
Electric Instantaneous	EF	(3)	0.93	0.99
Electric Heat Pump	EF	(3)	0.92	2.28
Gas-Fired Storage	EF	0.56	0.59	0.65
Gas-Fired Instantaneous	EF	(3)	0.54	0.85
Oil-Fired Storage	EF	0.55	0.51	0.68
Solar	SEF	N.A.	0.80	4.80
Commercial Type				
Electric Storage	Thermal Efficiency	98%	98%	98%
Gas-Fired Storage	Thermal Efficiency	82%	80%	94%
Oil-Fired Storage	Thermal Efficiency	77%	78%	82%

Note(s): 1) EF = energy factor and SEF = solar energy factor, which is the hot water energy delivered by the solar system divided by the electric or gas energy input to the system. 2) Based on a 40-gallon residential type tank. 3) Included in storage stock efficiency.

Source(s): EIA, Supplement to the AEO 2007, Feb. 2007, Table 21 and Table 22 for stock efficiencies; GAMA, Consumer's Directory of Certified Efficiency Ratings for the Residential and Water Heating Equipment, Aug. 2005 for best-available efficiencies and minimum efficiencies; and SRCC, Summary of SRCC Certified Solar Collector and Water Heating System Ratings, Apr. 2000, p. S16 - S20 for SEFs, Table 2.2, p. 4.